

FIG. 1

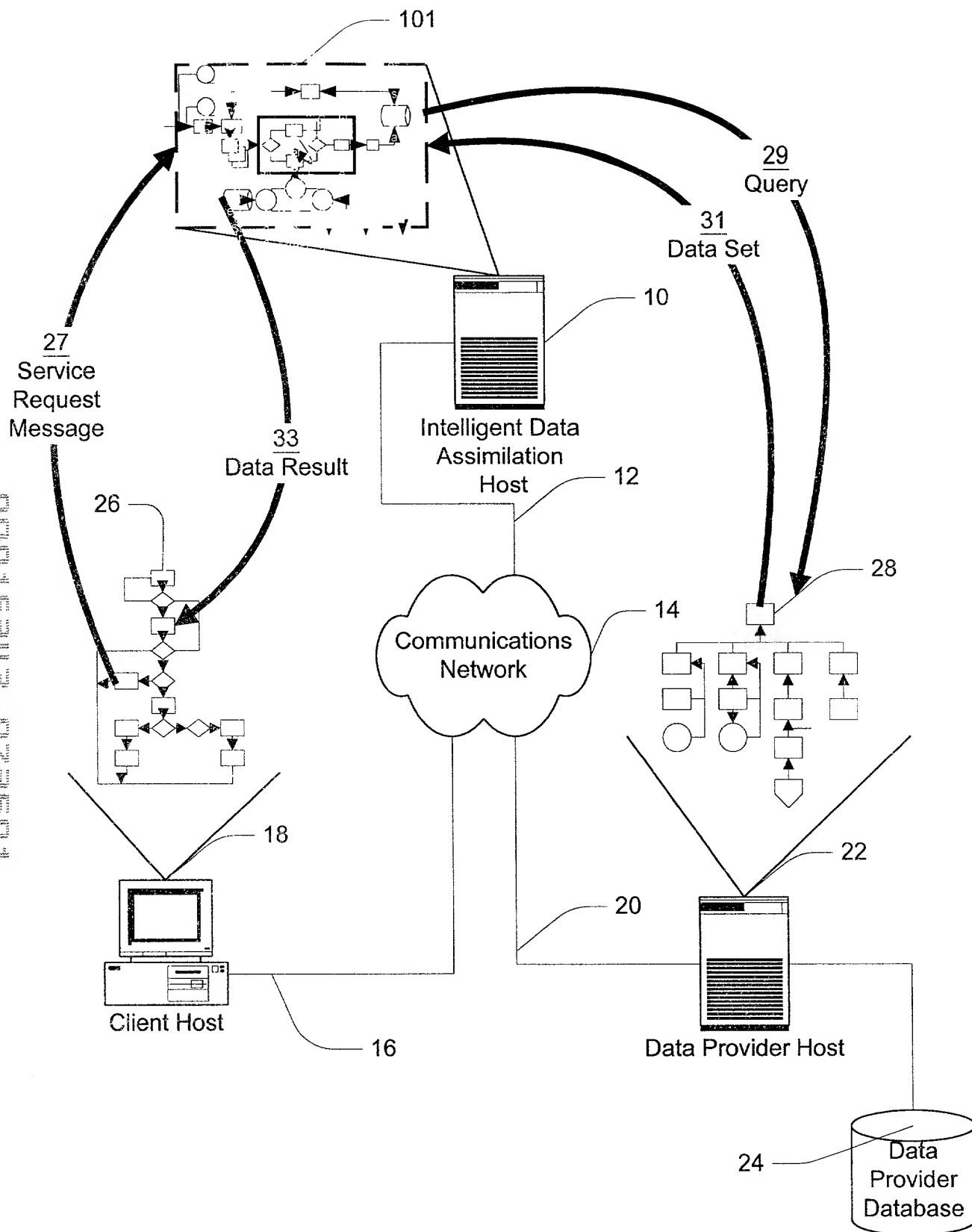


FIG. 1

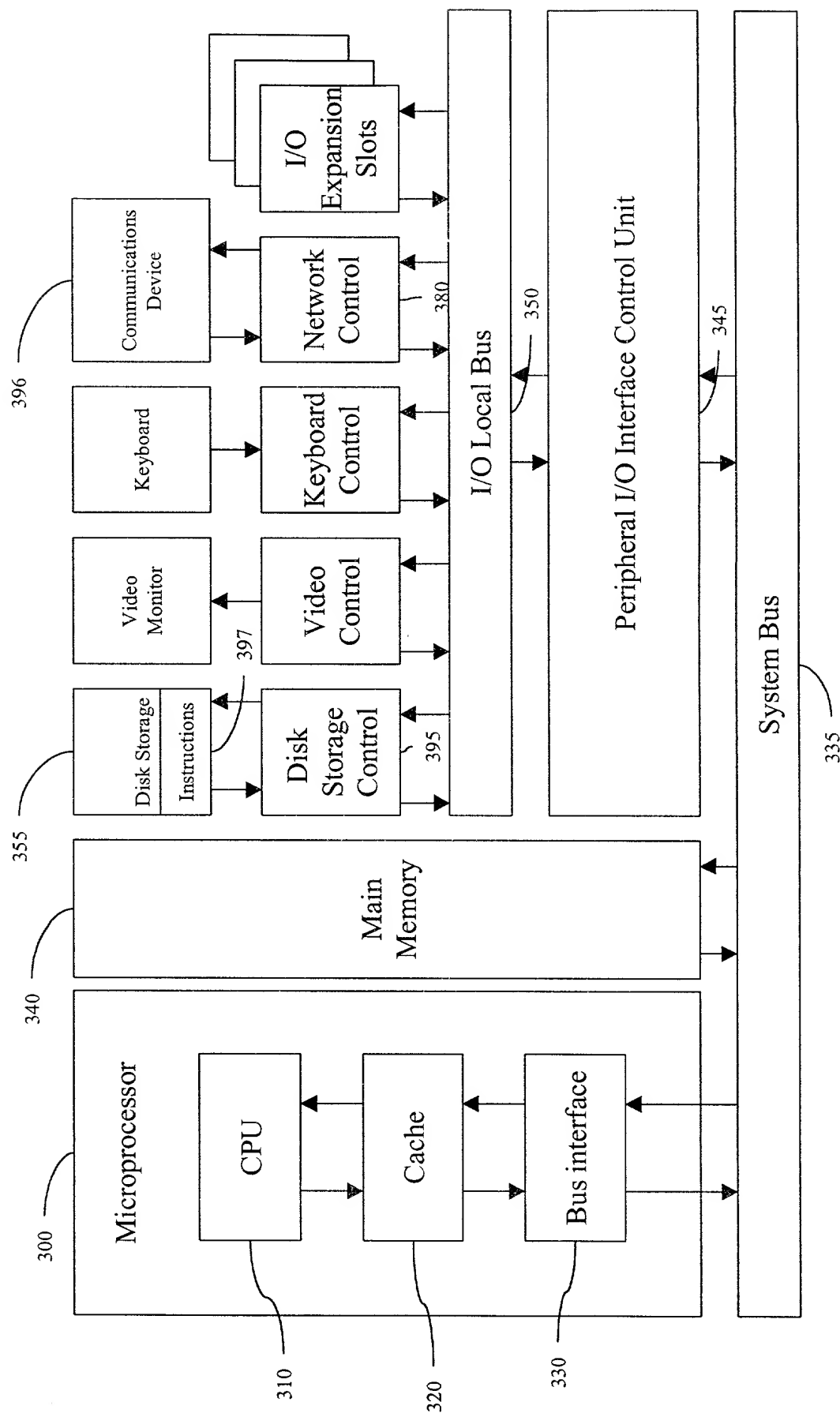


FIG. 2

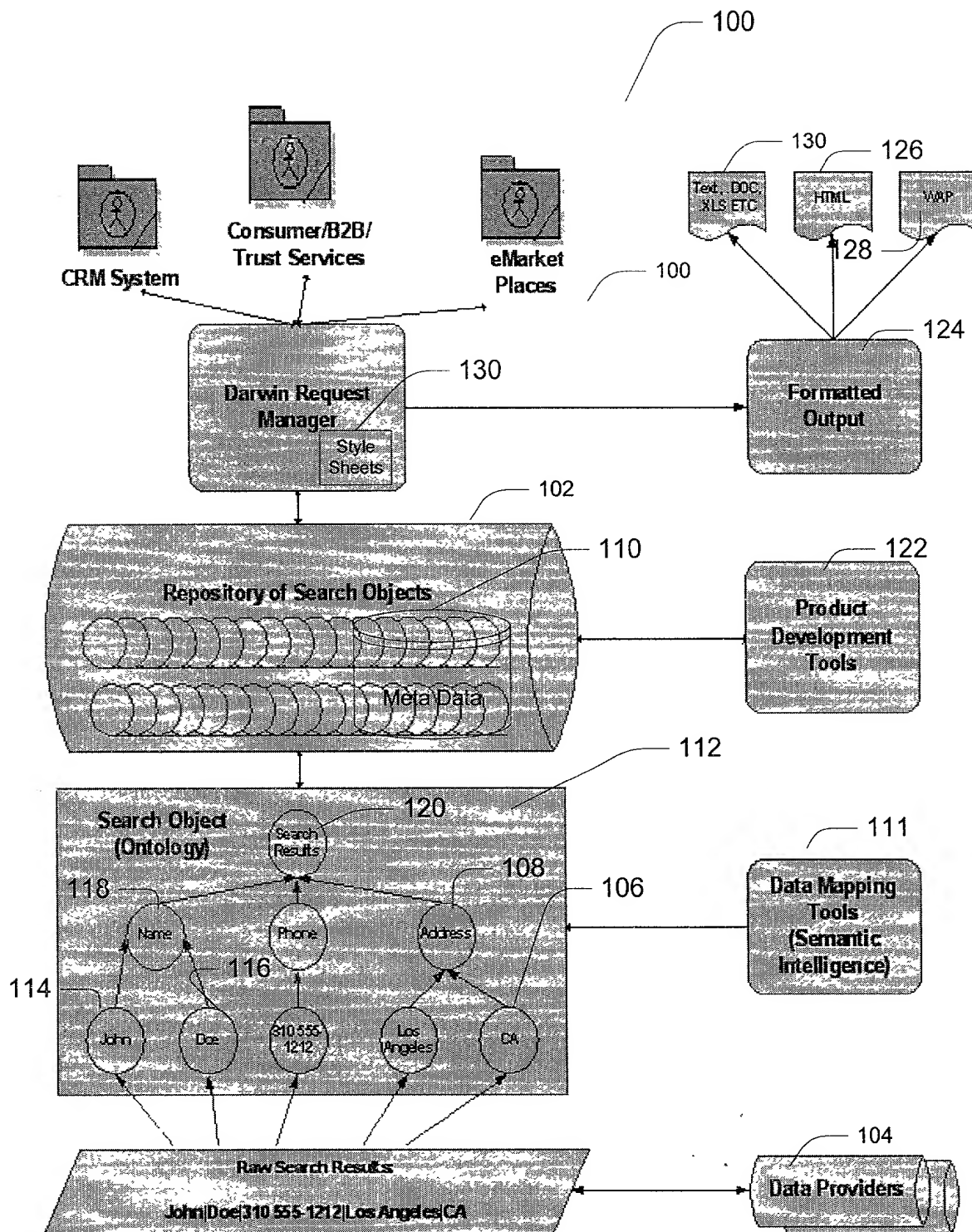


FIG. 3

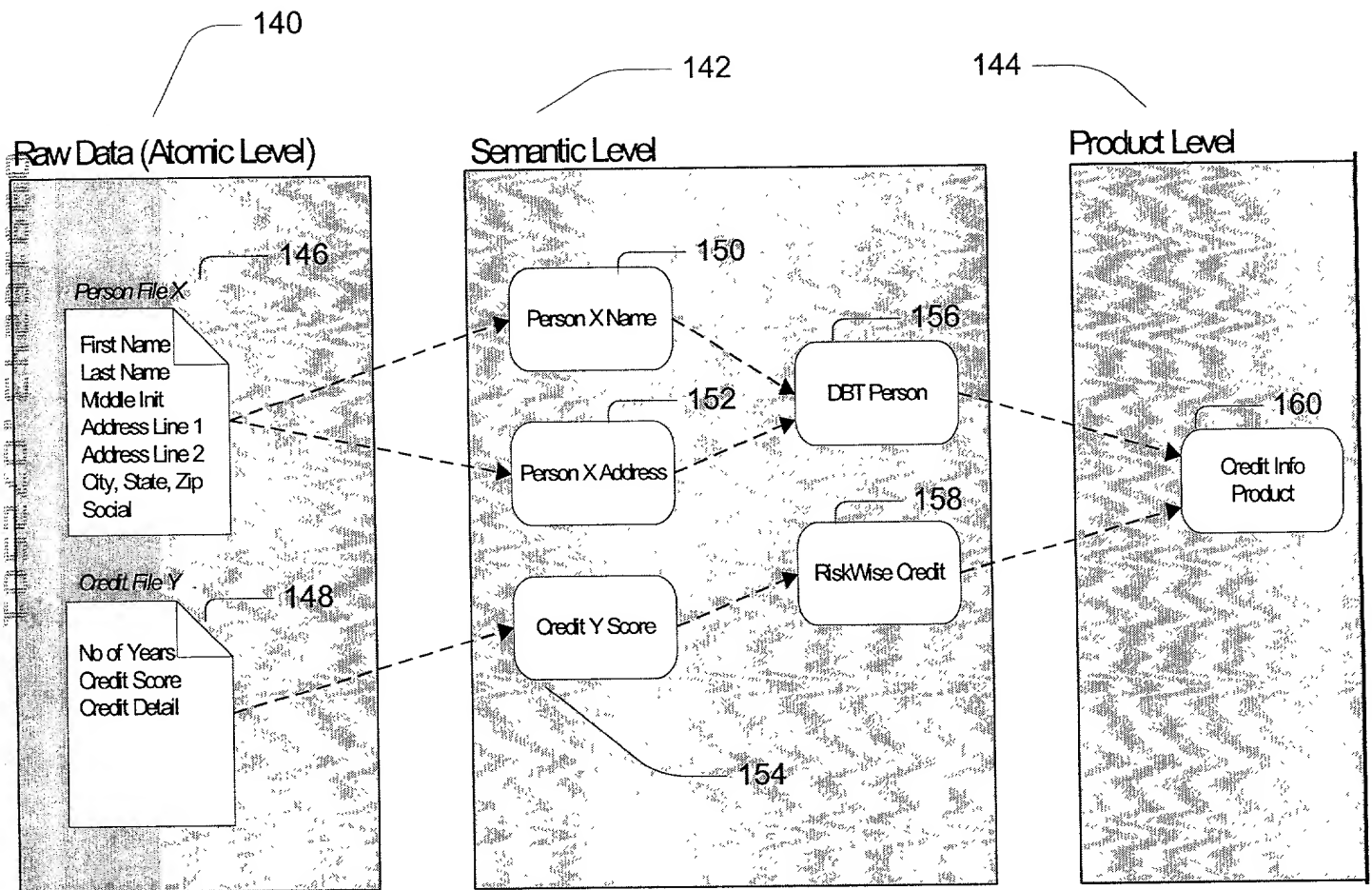
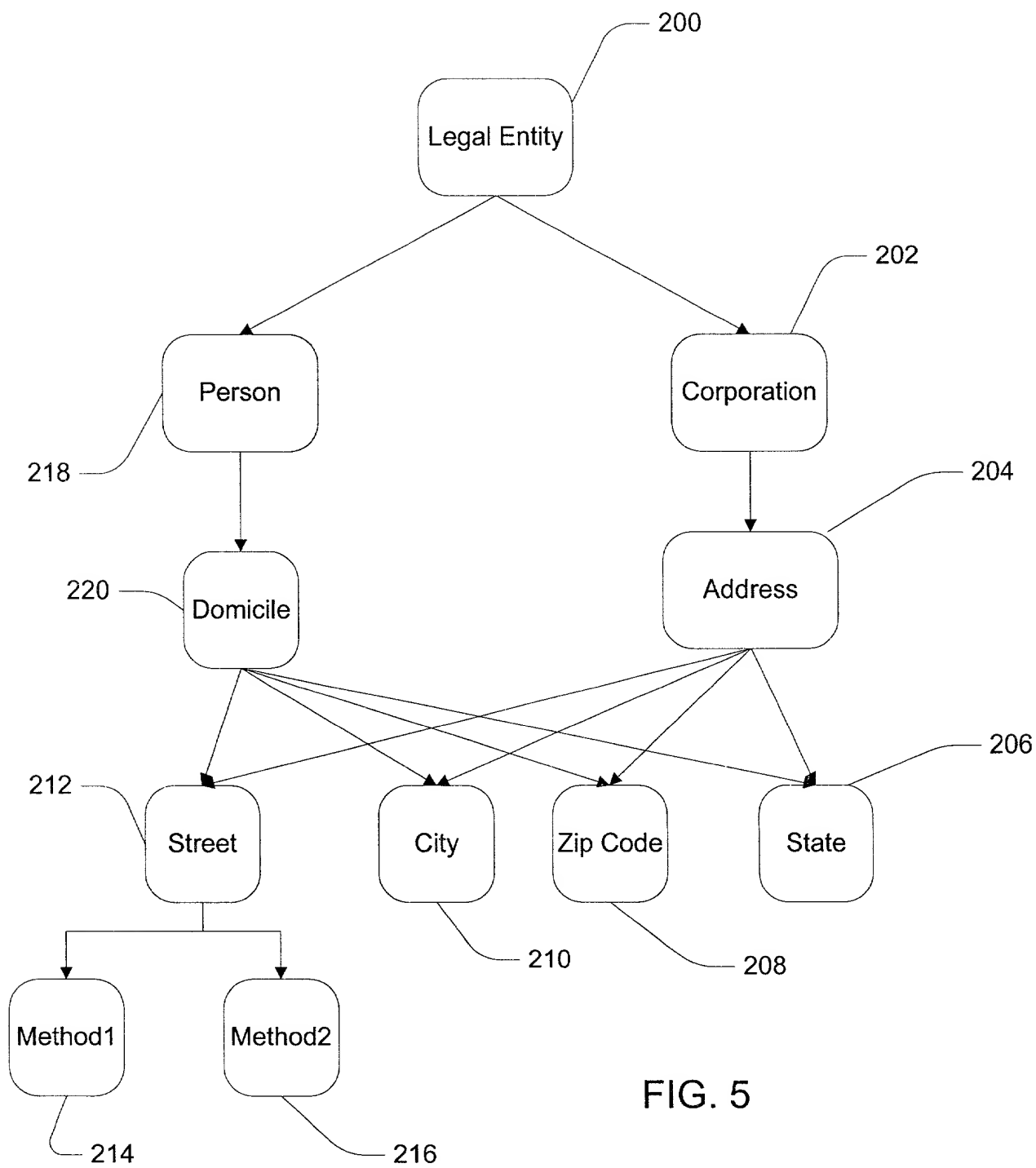
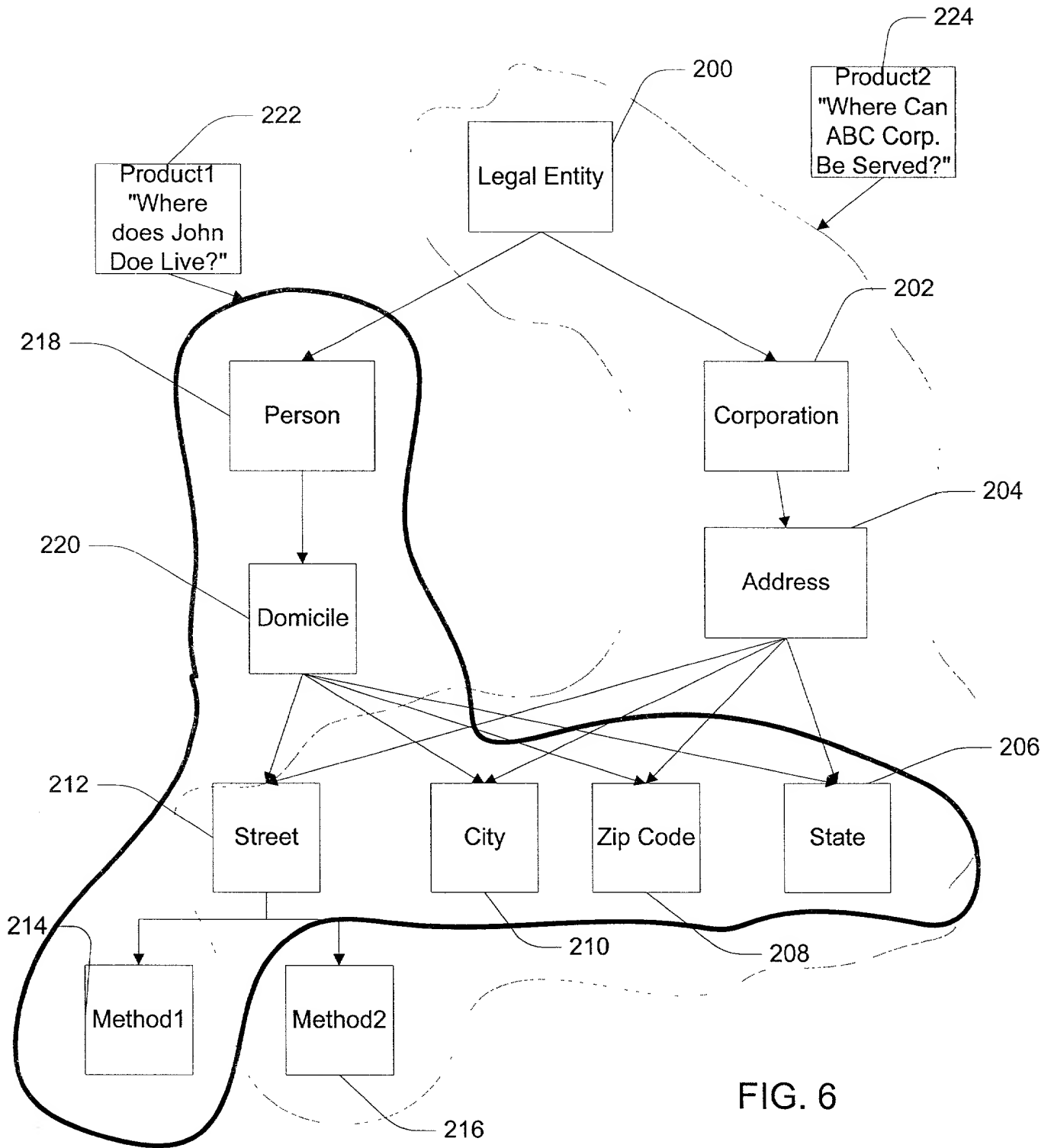


FIG. 4





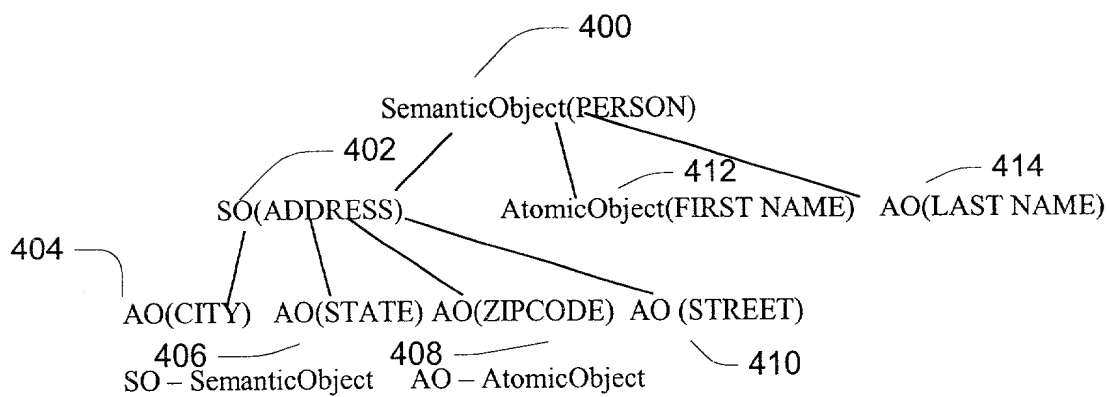


FIG. 7a

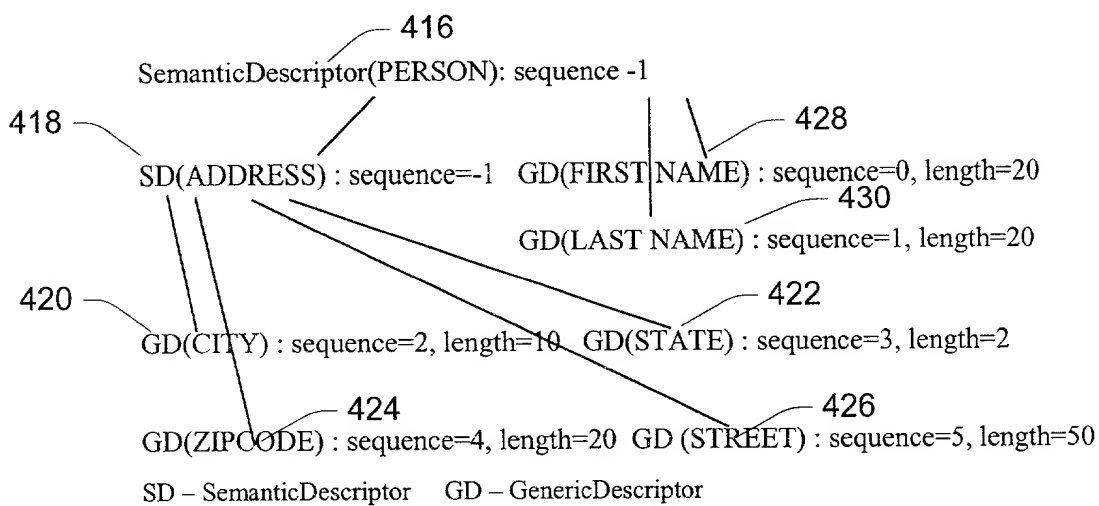


FIG. 7b

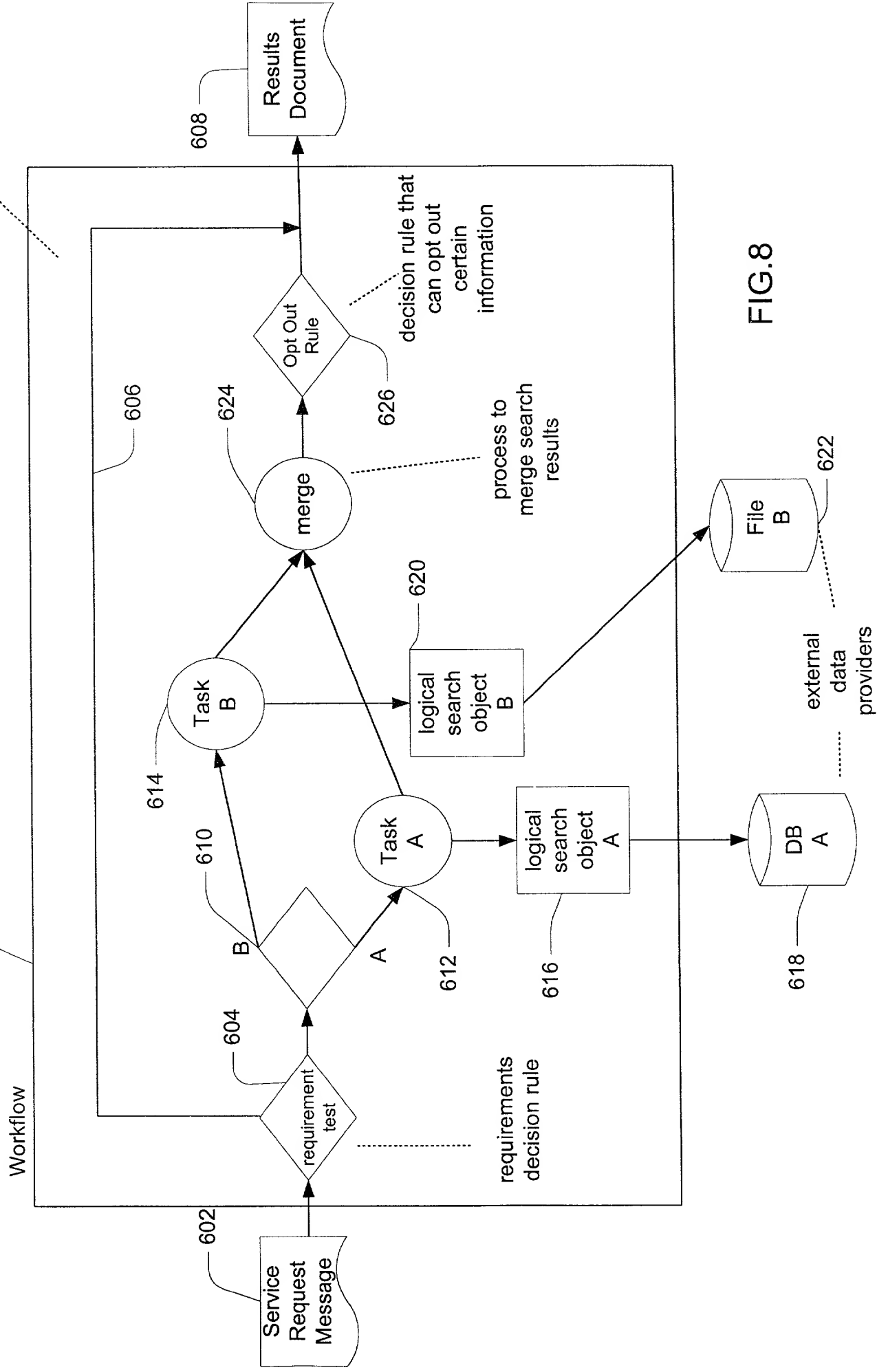


FIG.8



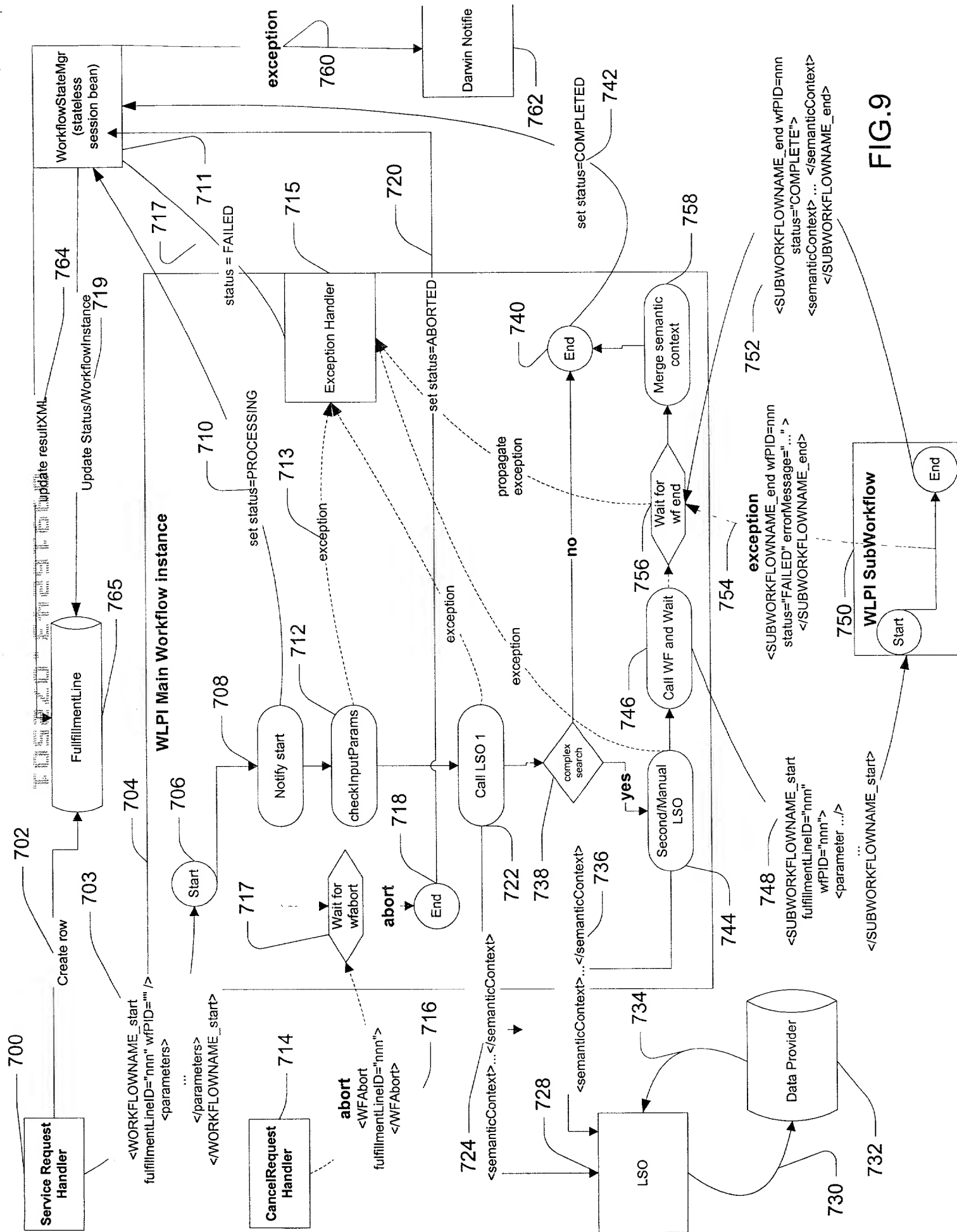


FIG.9

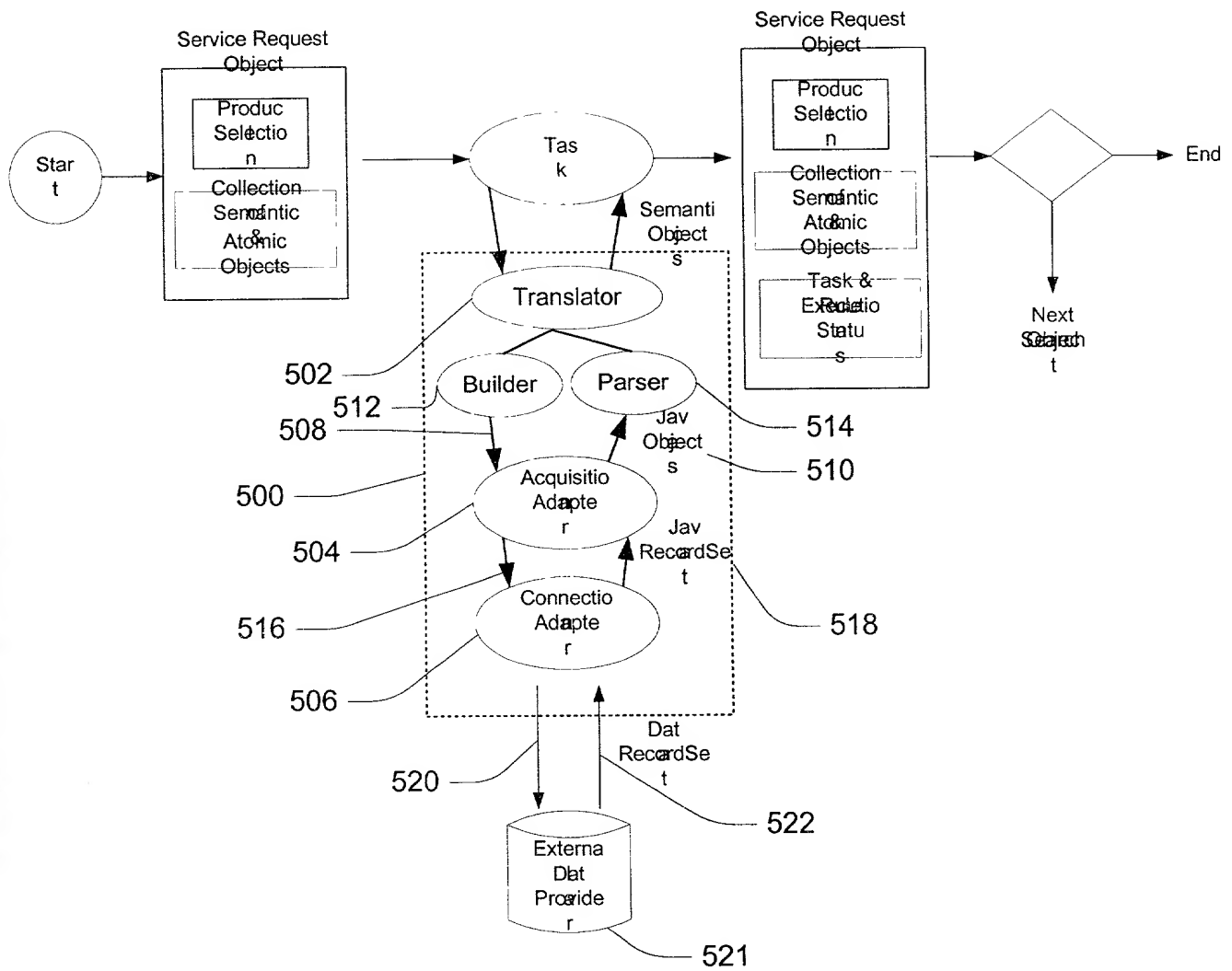
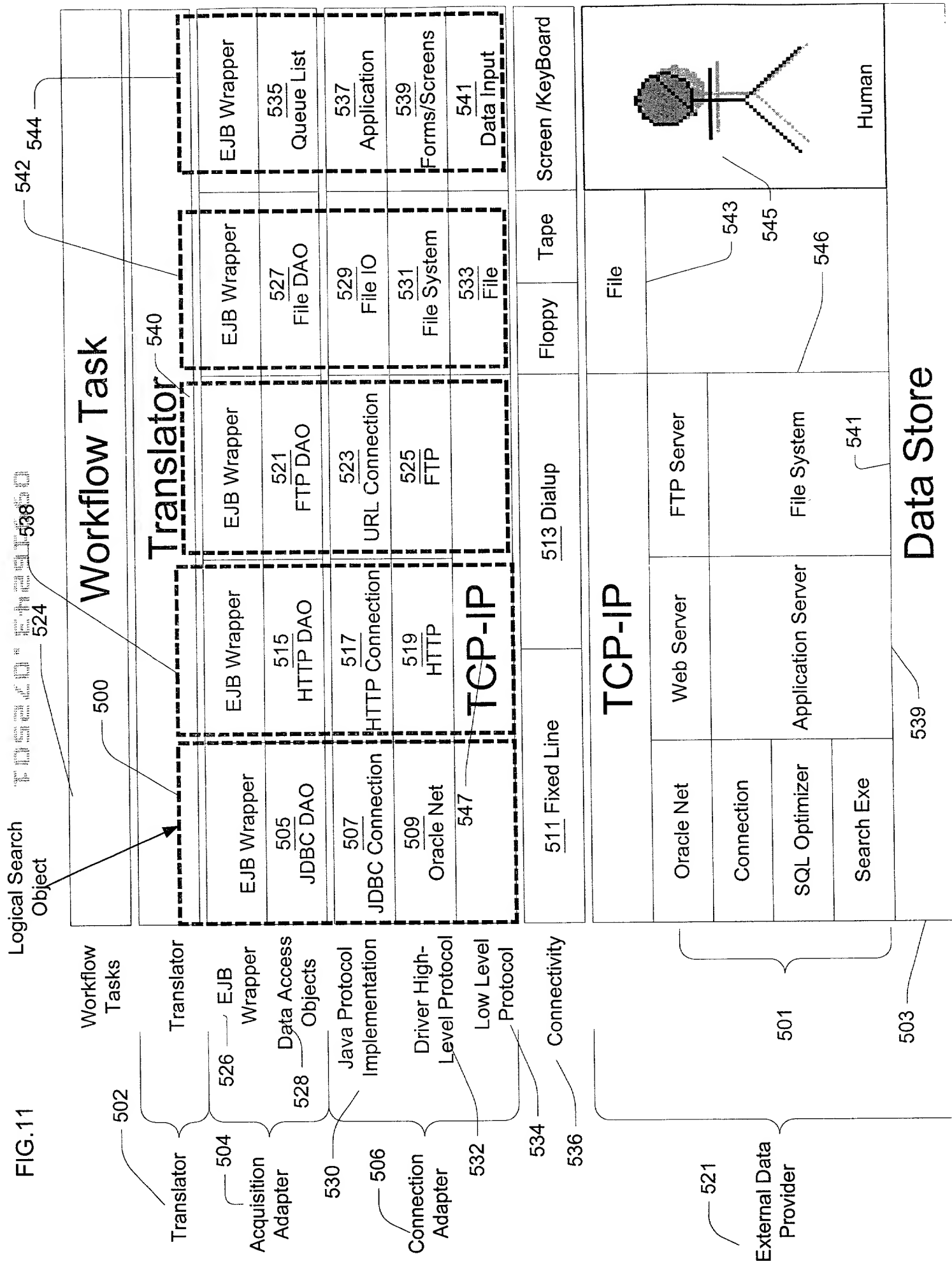


FIG. 10

## Logical Search



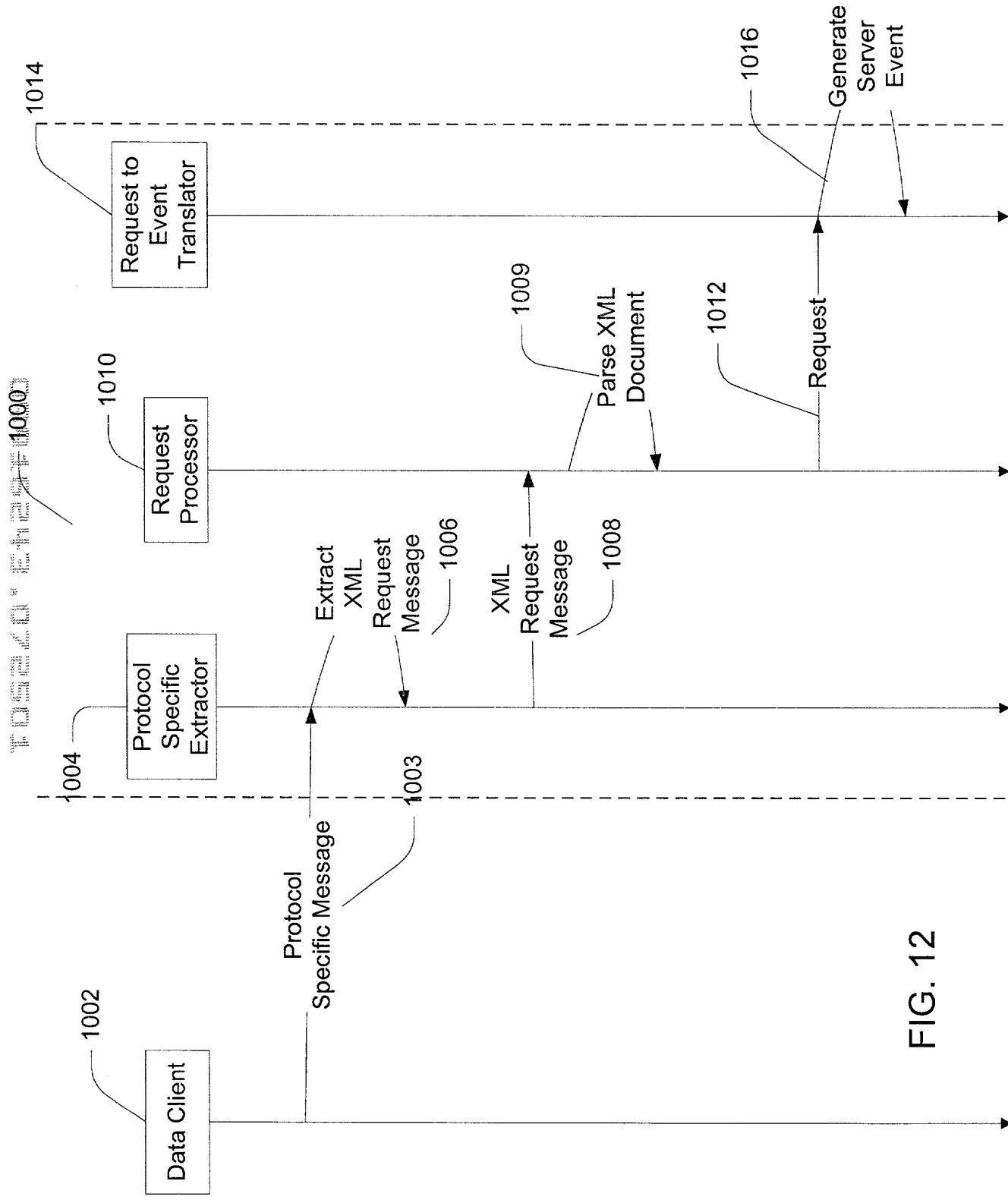


FIG. 12

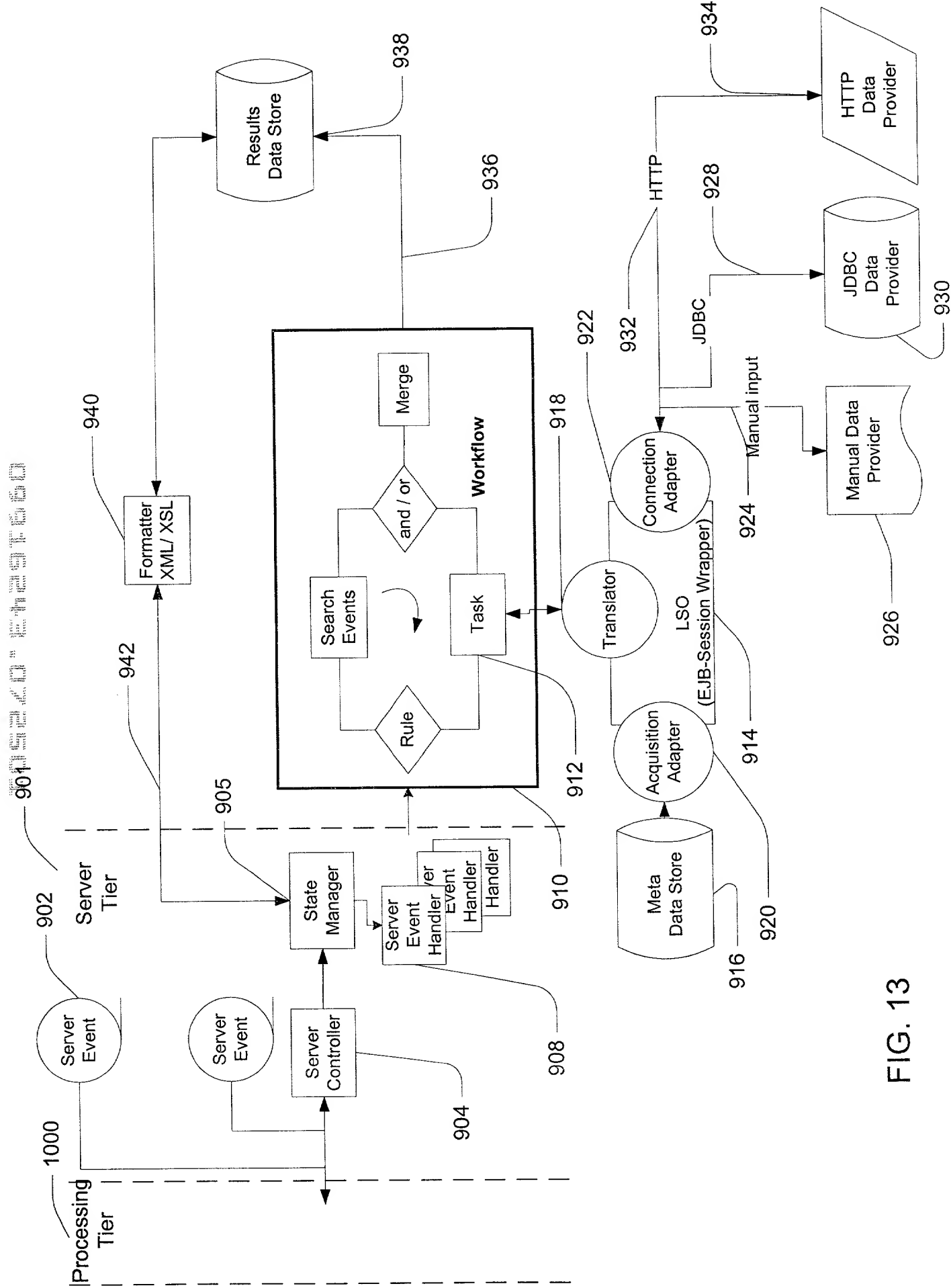


FIG. 13

Sample Service Request Message

<?xml version="1.0" encoding="UTF-8"?>  
<message type="ServiceRequest" source-id="com.searchco">  
 <data>  
 <service-request message-id="11001100">  
 <service-item sku="CSRASearch" item="1">  
 <parameter name="firstname" value="John" />  
 <parameter name="lastname" value="Smith" />  
  
 <notification type="email">  
 <parameter name="address"  
 value="John.Smith@company.com" />  
 <format style="email" />  
 </notification>  
  
 <result-format>  
 <format style="csra-results" />  
 </result-format>  
  
 <results>  
 </results>  
 </service-item>  
 </service-request>  
 </data>  
</message>

FIG. 14

### Sample Status Messages

```
<?xml version="1.0" encoding="UTF-8"?>
<message type="Status" source-id="com.searchco" >
  <data>
    <status message-id="1010010101">
      <status-request item="1" IDAS-id="394" />
      <status-request item="2" IDAS-id="488" />
      <status-request item="3" IDAS-id="506" />
      <status-request item="4" IDAS-id="13892192312" />
    </status>
  </data>
</message>
```

Handwritten annotations: ~1118, ~1119, ~1120, ~1122, 1124

FIG. 15

Sample Cancel Messages

```
<?xml version="1.0"?>~1127
<message type="Cancel" source-id="searchco">~1126
  <data>~1128
    <cancel message-id="1234567890">~1130
      <cancel-request item="1" IDAS-id="1234567890" />
      <cancel-request item="2" IDAS-id="2345678901" />
    </cancel>
  </data>
</message>
```

1132

FIG. 16

FIG. 16



# Sample Output Request Messages

<?xml version="1.0"?>

<message type="OutputRequest" source-id="searchco"> ~1134

<data> ~1136

<output message-id="1234567890"> ~1138

<output-request item="1" IDAS-id="1234567890"> ~1140

<format style="pdf" /> ~1142

</output-request> 1141

<output-request item="2" IDAS-id="2345678901">

<format style="html" />

</output-request>

</output>

</data>

</message>

FIG. 17

### Sample Response Messages

Sample of a message return when a service request has been accepted.

```
<?xml version="1.0"?>
<message type="Response" source-id="IDAS">
  <data>
    <service-response message-id="1010010101">
      <response item="1" result="Success"
        request="Order" IDAS-id="345234234">
        <response-value>Workflow started at 01:23pm
        September 4th</response-value >
      </response >
      <response item="2" result="Success"
        request="Order" IDAS-id="345234234">
        <response-value >Workflow started at 01:23pm
        September 4th, 2001</ response-value>
      </response>
    </service-response>
  </data>
</IDAS-message>
```

FIG. 18